

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 117 AND MATENY ROAD IN MONTGOMERY COUNTY. MD 117 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA FOUR-PHASE SEMI-TRAFFIC-ACTUATED MODE. MD 117 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY AND MATENY ROAD THROUGH MOVEMENTS WILL RUN CONCURRENTLY. THERE IS AN ALTERNATE PEDESTRIAN PHASE FOR THE EAST LEG OF THE INTERSECTION.

EQUIPMENT LIST FOR CONTRACT NO. XY2385185

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

CATEGORY CODE	QUANTITY	UNIT	DESCRIPTION
900000	2	SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN
	2	EA	R10-3(1) (9" x 15") POLE MOUNTED
900000	2	EA	VIDEO DETECTION INTERFACE EQUIPMENT: 1-8 CAMERAS

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

CATEGORY ITEM	QUANTITY	UNIT	DESCRIPTION
100000	1	EA	MAINTENANCE OF TRAFFIC (PER INTERSECTION)
201032	2	CY	CLASS 2 EXCAVATION
203030	1	CY	TEST PIT EXCAVATION
585621	135	LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585625	55	LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585700	255	LF	REMOVAL OF EXISTING PAVEMENT MARKING LINES, ANY WIDTH
600000	177	LF	TYPE A COMBINATION CURB AND GUTTER ANY HEIGHT OR DEPTH
600000	93	LF	TYPE A CURB ANY HEIGHT OR DEPTH
655105	959	SF	5 INCH CONCRETE SIDEWALK
655120	64	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
704435	25	SY	PLACING FURNISHED TOPSOIL 4" DEPTH
705500	25	SY	TURFGRASS ESTABLISHMENT
800000	1	EA	2-WIRE APS CENTRAL CONTROL UNIT
800000	2	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
800000	2	EA	IP-BASED VIDEO DETECTION CAMERA & ANY LENGTH LEAD-IN CABLE
800000	2	EA	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	2	EA	5 FOOT OR 10 FOOT PEDESTAL POLE WITH BREAKAWAY COUPLINGS, FOUNDATION & GROUND ROD
800000	2	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
800000	1	EA	REMOVE & DISPOSE OF EXISTING SIGNAL EQUIPMENT (PER SIGNALIZED INTERSECTION LOCATION)
800000	50	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
800000	1	EA	THIRD PARTY CONCRETE TESTING (PER INTERSECTION)
802501	50	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
861105	265	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	280	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

C. EQUIPMENT TO BE REMOVED.

ALL EXISTING SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL.

CONTACTS

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PHASE CHART

1	2	3	4	5	6	7	8	9	10	11
(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)

PHASE 2 AND 6	G	G	G	G	G	R	R	R	R	DW	DW	
2 AND 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	
PHASE 4 AND 8	R	R	R	R	R	G	G	G	G	DW	DW	
4 AND 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	DW	DW	
PHASE 4 AND 8 ALT	R	R	R	R	R	G	G	G	G	WK	WK	
PED CLEARANCE	R	R	R	R	R	G	G	G	G	FL/DW	FL/DW	
4 AND 8 ALT CHANGE	R	R	R	R	R	Y	Y	Y	Y	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	

MD 117 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION

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EXISTING INTERCONNECT TO MD 119 (GREAT SENECA HWY)

EXISTING INTERCONNECT TO WADING STATION ROAD

WIRING KEY

- AB } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- CD } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- ab } VIDEO CAMERA CABLE
- x } STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 117 (CLOPPER ROAD)
AND MATENY ROAD
GERMANTOWN, MD

GENERAL INFORMATION PLAN SHEET

SCALE NONE ADVERTISED DATE 08/2013 CONTRACT NO. XY2385185

DESIGNED BY CW COUNTY MONTGOMERY
DRAWN BY CW LOGMILE 15.01708.55
CHECKED BY RM TMS NO. M055
F.A.P. NO. TOD NO.

TS NO. 1764B-GI DRAWING SG-3 OF 3 SHEET NO. 3 OF 3

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PLOTTED: Wednesday, August 21, 2013 AT 04:00 PM
FILE: P:\09-002 TEDD\Task 135 MD 117 Signals\Drawings\CADD\Working\5_MDI17@Mateny Rd\p59-P003_M117@Mateny.dgn